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Phacoemulsification and vitrectomy for macular hole

Facoemulsificação e vitrectomia para buraco macular

Facoemulsificación y vitrectomía por agujero macular

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ABSTRACT

In this video, we demonstrate the surgical technique for macular hole combined with cataract extraction performed in a female patient with a stage IV macular hole revealed by an optical coherence tomography. We performed phacoemulsification with an intraocular lens implant made of foldable acrylic within the capsular bag. We used 23-gauge trocars to access the inside of the vitreous cavity. Vitrectomy was performed by detaching the vitreous gel from its most adhesive points. Brilliant Blue, which is a vital stain, was used to better identify the internal limiting membrane and to perform the peel. Next, we performed the air-fluid and air-sulfur hexafluoride (sulfur hexafluoride 20%) exchange to aid the closure of the macular hole. As this was a case of sutureless incisions, after removing the trocars, we lightly compressed the area of the incisions to ensure their closure.

Palavras-chave:
Macular Hole
Phacoemulsification
Vitrectomy
Retina; Lens
Macular Hole Surgery
Internal Limiting Membrane Peeling

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